

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau(43) International Publication Date
24 December 2003 (24.12.2003)

PCT

(10) International Publication Number
WO 03/107665 A1(51) International Patent Classification⁷: H04N 5/783,
5/913, 7/167, 7/24

(21) International Application Number: PCT/IB03/02362

(22) International Filing Date: 27 May 2003 (27.05.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
02077289.3 12 June 2002 (12.06.2002) EP(71) Applicant (for all designated States except US): KONIN-
KLIJKE PHILIPS ELECTRONICS N.V. [NL/NL];
Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD,
SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US,
UZ, VC, VN, YU, ZA, ZM, ZW.(84) Designated States (*regional*): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,
SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(72) Inventors; and

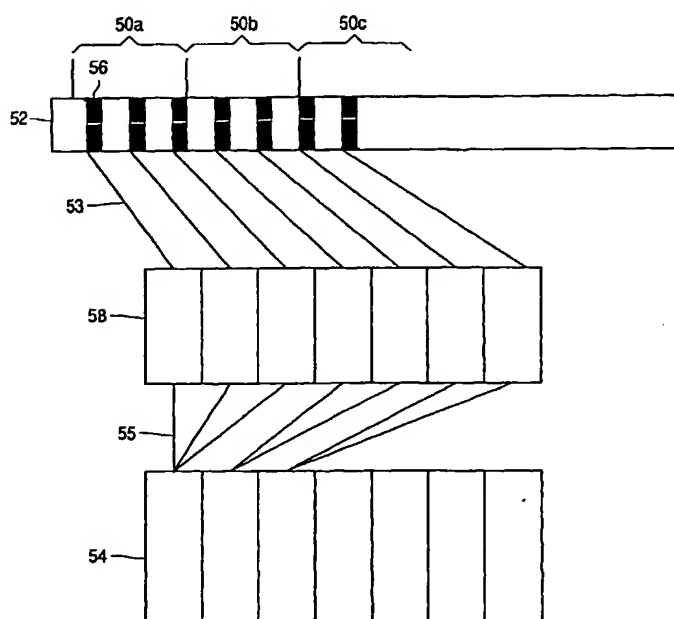
(75) Inventors/Applicants (for US only): RIJCKAERT, Al-
bert, M., A. [NL/NL]; c/o Prof. Holstlaan 6, NL-5656 AA
Eindhoven (NL). VERSLEGERS, Rudi, J., J. [BE/BE];
c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).(74) Agent: GROENENDAAL, Antonius, W., M.; Philips
Intellectual Property & Standards, Prof. Holstlaan 6,
NL-5656 AA Eindhoven (NL).

Published:

- with international search report
- before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: TRICK PLAY OF ENCRYPTED DATA IN A CONDITIONAL ACCESS SIGNAL



(57) Abstract: An incoming data stream contains a stream of encrypted data and a stream of messages. Data in successive segments of the stream of encrypted data is decryptable with successive decryption information from the messages. The stream of encrypted data is stored and items with decryption information from the stream of messages are stored. Synchronization information is stored that links respective points in the stored stream of encrypted data to respective ones of the items with decryption information. The synchronization is stored so that it is retrievable independent of the stream. During trick replay a stored part of the stream of encrypted data is replayed in an abnormal temporal pattern. The items with decryption information are retrieved for the points in said stored part during said replaying. The retrieved items are combined with decryption information of the stream during replay at times selected under control of the synchronization information, the items which are combined being selected and/or a time when the items are combined with the stream being selected, dependent on the synchronization information and the abnormal temporal pattern.